AMENDMENT UNDER 37 C.F.R. § 1.111 U.S. APPLN. NO. 09/767,831 ATTORNEY DOCKET NO. Q62329

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

- (Currently Amended) A filter Filter arrangement with a linear phase characteristic comprising:
- [[a.]] a first filter (P1) having an amplitude characteristic that meets a predefined amplitude specification and having a phase characteristic that generally is a non-linear function of frequency; and
- [[b.]] a second filter-(F2), cascade coupled to said first filter-(F1), said second filter (F2) having a phase characteristic that is substantially equal to the sum of that is, up to a linear function of frequency[[,]] and the substantially opposite to said phase characteristic of said first filter-(F1).
- wherein CHARACTERISED IN THAT-said second filter (F2) is an anti-causal version of a fictive digital all-pass filter (APF) having a phase characteristic that is substantially equal to the sum of that is, up to a linear function of frequency[[,]] and substantially equal to said phase characteristic of said first filter (F1).
 - 2. (Currently Amended) The filter Filter arrangement according to claim 1, wherein CHARACTERISED IN THAT said tirst filter (F1) is an analog analogue filter.

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- 3. (Currently Amended) The filter Filter arrangement according to claim 1, wherein CHARACTERISED IN THAT said first filter (F1) is a digital filter.
- 4. (Currently Amended) A method Method to develop a filter arrangement with a linear phase characteristic, wherein the method comprises comprising the steps of:
- [[a.]] designing a first filter (F1) so that its amplitude characteristic meets a predefined amplitude specification;
 - [[b.]] implementing said first filter-(F1);
- [[c.]] determining a phase characteristic of said first filter (F1), said phase characteristic being a non-linear function of frequency;
- [[d.]] implementing a second filter (F2) so that its phase characteristic is[[,]] is substantially equal to the sum of up to a linear function of frequency[[,]] and the substantially upposite to said phase characteristic of said first filter (F1); and
- [[e.]] cascade coupling said first filter (F1) and said second filter, wherein (F2) to thereby constitute said filter arrangement,

CHARACTERISED IN THAT said step of implementing said second filter (F2) comprises the substeps of:

[[d1,]] designing a fictive digital all-pass filter (APF) so that its phase characteristic is[[,]] substantially equal to the sum of up to-a linear function of frequency[[,]] and substantially equal to said phase characteristic of said first filter-(F1); and